



Food Handler's Training
Environmental Health Section
Department of Preventive Medicine
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### Requirements for Temporary Food Establishments



	emporary Food Establishment operates for a period of no more than 14 secutive days in conjunction with a single event or celebration.  An organization with a cookout, chapel suppers, pot luck & other similar events are NOT considered temporary food establishments (Unless there is money being charged for services).
TB	MED 530/NAVMED P-5010-1/AFMAN 48-147_IP, Tri-Service Food Code
spe	cifies requirements for vendor application to operate a food establishment,
emp	ployee training, and safe food handling practices.
ٔ ت	Submit an application to operate to the Preventive Medicine office at least 30 days prior to the scheduled event or opening of the operation.
	Pass a pre-operational inspection conducted by Preventive Medicine prior to serving customers. (Special Events, Vendors and AAFES contracts only)
	Food operation person in charge must possess a valid Food Protection Manager Certification. (When using Potentially Hazardous Food (PHF))
	When using PHFs, person in charge must remain on site at all times when the food operation is open for business. Food service workers must be trained to perform prescribed duties in a safe manner and in accordance with the prescribed sanitation and food safety requirements.



#### Purpose and Objective



- PURPOSE This training is designed to familiarize family readiness groups and Non-profit organizations operating a temporary food establishment with the basic principles of food safety that must be applied when conducting food operations on military installations.
- □ OBJECTIVE The objective for adhering to established food safety principles is to prevent the occurrence of foodborne illness.
- ☐ SCOPE OF TRAINING -
  - Understand factors that contribute to foodborne illness.
  - Understand controls that will minimize the risk of foodborne illness.



#### **Training Outline**



- ☐ Foodborne Illnesses
- ☐ Food Safety Hazards
- ☐ Biological Hazards & the Nature of Bacteria
- ☐ Key Terms
- ☐ Foodborne Illness Risk Factors
- ☐ Food Protection During Storage
- Layers of Protection
- ☐ Personal Hygiene & Work Habits
- □ Proper Cleaning & Sanitizing
- ☐ Time & Temperature Controls
- □ Requirements for an Event



#### Foodborne Illnesses



☐ Only a small percentage of actual foodborne illness cases every get reported. ☐ The CDC estimates that 76 million illnesses happen each year. ☐ There are about 325,000 hospitializations and 5,000 deaths each year from foodborne illnesses. ☐ Foodborne illnesses do occur on military installations. In 2013, an outbreak occurred in a training population resulting in over 150 Soldiers with nasuea, vomiting and diarrhea. ☐ Personnel who prepare food play a vital role in the prevention of foodborne illnesses by: ■ Adhering to prescribed food safety measures; and Maintaining sanitary controls within food operations.



### Food Safety Hazards



- □ Harmful substances that present a food safety hazard can be chemical, physical, or biological in nature and may result in injury or illness when ingested.
  - ☐ Chemical: detergents, sanitizing agents, pesticides, fuels, etc.
    - Contamination of food or food contact surfaces (equipment/utensils) occurs through direct contact with chemicals or chemical residues following improper use or storage.
  - ☐ Physical: bone fragments, glass, toothpicks, etc.
    - When physical hazards such as insects and hair come into contact with food, biological contaminants contained on their surfaces are transferred to the food.
  - ☐ Biological: bacteria, viruses, parasites, yeasts, molds, etc.
    - Biological hazards contribute to almost two-thirds of all foodborne illnesses outbreaks.



#### Biological Hazards and the Nature of Bacteria



- Bacteria are microscopic and cannot be seen by the naked eye.
   Hundreds or thousands of bacteria may already exist on raw foods when purchased.
   The right temperature, moisture, and food are needed for bacteria to survive and multiply.
   Under ideal conditions, bacteria can double in numbers every 15-20 minutes.
   Some bacteria product toxins and/or spores.
   Bacteria in food can cause:

   Infection illness caused by ingesting a sufficient amount of live bacteria.
  - Intoxication illness caused by ingesting the toxic residues deposited in food when the bacteria was alive.



on a surface to safe levels.

#### **Key Terms**

A foodborne illness outbreak is defined as 2 or more cases of a similar illness resulting from the ingestion of a common food.

 lce and beverages are included as a "food"

 Contaminated is the presence of harmful substances (physical, chemical, or biological) in food.
 Clean to sight and touch means there is no visible debris, encrusted food, or greasy feeling.
 Sanitize is a process of reducing the total number of micro-organisms (germs)



#### **Key Terms**

- □ Cross-contamination is the transfer of harmful substances to food through direct or indirect contact:
  - □ Spilled chemicals or detergents on food packages or surfaces where food comes into direct contact such as plates, silverware, and food prep tables.
  - Using un-sanitized equipment or utensils to prepare, store, or serve food.
  - Bare hand contact with foods that are ready-to-eat (RTE) such as fresh fruits, sandwiches, salad vegetables, and deli meats and cheeses.
  - Bacteria from raw foods transferred to foods that are ready-to-eat.
    - Blood from raw meat dripping onto RTE foods stored on a lower shelf in the refrigerator.
    - Cutting boards and knives used to prepare raw meat are not cleaned and sanitized and are then used to prepare RTE foods.



# Key Terms

Potentially Hazardous Food (PHF) is a food that requires time or temperature control for safety to limit the growth of harmful micro-organisms or the formation of toxins:			
	Raw or heat-treated (cooked) animal food – meat, polutry, seafood, dairy products.		
	Heat-treated plant food – rice, pasta, baked potato, fried onions, cooked apples.		
	Cut plant foods – cut tomatoes, cut leafy greens (spinach/salad), cut melons, chopped garlic in oil		
	Raw seed sprouts.		
	Cream pies		
	Gravies.		



### Foodborne Illness Risk Factors

	re are 5 major risk factors (or conditions) related to employee behaviors and breparation practices that contribute to foodborne illness:
	<b>Food from unsafe sources</b> : Food must be obtained from sanitary sources that conform to local, state, and federal statutes and regulations. <i>Veterinary Services approves all food sources on Fort Jackson.</i>
	<b>Inadequate cooking:</b> Food must be cooked to prescribed temperatures in order to kill any residual bacteria, viruses, or parasites that might be in or on the food.
	<b>Improper holding temperatures:</b> Potentially hazardous foods must be held at proper cold (40°F) holding and hot (140°F) holding temperatures to prevent growth of bacteria.
	<b>Contaminated equipment:</b> Food contact surfaces must be cleaned and sanitized to prevent cross-contaminated of food.
	<b>Poor personal hygiene:</b> Food employees must adhere to standards of hygiene to prevent contamination of food contact surfaces and food.



## Food Protected During Storage

Protect from contamination when stored in refrigerators/freezers/ice chests.	
All food must be wrapped or held in a covered container.	
Food packaging/containers should be closed/covered so that there is no exposed food.	
Food containers or packaging must be impermeable to protect from melting ice when stored in chests.	ice
■ Storage units must be kept clean; free of residual food debris.	
Cover food (and containers of food) when held in hold or cold holding during service periods.	
Always examine food and food containers for signs of contamination or spoilable before use.	ge



#### Layers of Protection

- □ Apply multiple levels of control called *Layers of Protection* is the underlying principle for reducing the risk of foodborne illness from biological hazards.
   □ Good personal hygiene and work habits represent the first layer of protection to prevent
  - transferring biological contaminants to food and surfaces that generally come into contact with food.
  - Proper cleaning and sanitizing is the second layer of protection that prevents cross-contamination of food by removing harmful agents from surfaces.
  - ☐ The third layer, time and temperature controls, are employed to prevent the growth of harmful microorganisms that may already exist in food.



### Personal Hygiene and Work Habits

"Hand-washing i	is the single mos	st important	means to	preventing	the spread
of infection" - C	enter for Disease	Control and	Prevention		

Pec	ple are natural carriers of bacteria –
<u> </u>	Staph bacteria is found on skin and hair, regardless of how often you bathe.  Bacteria such as E. Coli are found in our intestines. When you go to the bathroom, hands become contaminated with bacteria which are transferred to everything you touch.
	ple can also carry harmful viruses that are readily transmitted through food o tact with surfaces that are touched by others -
	Norovirus is an example; it can live on surfaces such as door handles, dishes, or chairs for severa days ( <i>Generally the cause of disease on cruise ships</i> ).
	Infection occurs when contaminated food is ingested or contaminated hands come into contact with mucous membranes (eyes, nose, mouth).



#### When Should You Wash Your Hands?

Hand-washing is the single most important means to preventing the spread of infection" – Center for Disease Control and Prevention				
Before beginning work After using toilet facilities After smoking, eating, applying lip balm, or taking a break Before putting on disposable gloves and between glove changes.				
Change gloves between food tasks and non-food tasks such as preparing food and handling money or restocking supplies and food/condiments.				
<ul><li>Before handling cleaned and sanitized equipment and utensils.</li><li>After every change of contamination.</li></ul>				
<ul> <li>Performing custodial tasks such as handling soiled equipment and utensils or trash</li> <li>Touching hair, face, nose, mouth, etc.</li> </ul>				
☐ Before conducting any task involving food handling.				



### Handwashing Sinks

A dedicated handwashing sink must be provided at the food concession fo employee use only.	r food
Hand sanitizer cannot be used as a substitute for handwashing.	
Handwashing sinks must be stocked with:	
<ul> <li>□ Soap</li> <li>□ Hot water</li> <li>□ Disposal paper towels</li> <li>□ Garbage receptacle</li> </ul>	
Handwashing procedures:	
<ul> <li>Later all exposed skin up to mid-forearm</li> <li>Scrub lathered skin for up to 20 seconds</li> <li>Rinse &amp; dry with disposable paper towel</li> </ul>	



# Hygiene Standards

Fing	gernails:
	Neatly trimmed and smooth
	NO fingernail polish, false nails, nail ornaments or jewelry.
No	eating or drinking in food preparation or serving areas.  Exception: Water in a closed container.
	Used only designated break areas away from food serving and preparation.
	Osed only designated break areas away from 1000 serving and preparation.
Who	en disposable gloves are worn you must change:
	Between handling soiled and cleaned/sanitized equipment and utensils
	After handling trash
	After wiping tables/counters
	Before handling money
	When gloves become torn



# Cleaning and Sanitizing

Equipment and utensils will be cleaned and sanitized when they become soiled or contaminated in: <ul> <li>Hot soapy water</li> <li>An approved bleach solution.</li> </ul>
Test sanitizing concentrations by:  ☐ Using test kits or test paper ☐ Minimum concentration should be 100 ppm ☐ Maximum concentration should be 200 ppm
Prepare bleach solution:  Use a 1 gallon container  Add ½ tablespoon of bleach to 1 gallon of water  Shake well, verify concentration, then fill individual spray bottles  Prepare fresh for every event



## Time & Temperature Control

Ч	HOT TO	oods:
		Must be maintained at 140°F or above during holding.
		Cooked to appropriate temperatures:
		☐ Poultry, poultry and stuffed foods: 165°F.
		☐ Pork, ground beef, fish, and bulk scrambled eggs: 155°F.
		☐ Lamb, veal, made-to-order eggs: 145°F.
	Cold	foods:
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		Must be maintained at 40°F or below.
		Frozen foods <u>must remain frozen.</u>
	Three	e approved thawing techniques:
		In running water of 70°F (least preferred method).
		In the microwave as part of the conventional cooking process.
		In the refrigerator.  After removal from freezer, product must be used within 7 calendar days
		preferred method).



### Requirements for Events

Foo	d Permits:
	Vendor and FRG operations must gain approval from Veterinary Food Inspectors for their food sources prior to operating on Fort Jackson (does not apply to baked goods/sales).
	After approval from Veterinary Food Inspectors, contact Environmental Health for final approval of operations.
Foo	d booths/operations must have:
	Bi-metal stemmed thermometer capable of being calibrated to ±2°F.
	Sterno, crockpot, or other hold holding device to keep food 140°F.
	Self-draining ice chest to keep food cold.
	Handwashing station must be available.
	Garbage receptacle with lid.
	Wiping cloths must be kept in a sanitizing solution of 100-200 ppm.